

Notice of Allowability

Application No.

10/708,376

Applicant(s)

LEE, HSIN-HUNG

Examiner

John A. McPherson

Art Unit

1756

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the election filed 2/8/07.
2. ☒ The allowed claim(s) is/are 1-9.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

This application is in condition for allowance except for the presence of claims 10-16 directed to an invention non-elected without traverse. Accordingly, claims 10-16 have been cancelled.

Pertinent Prior Art

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

US 2003/0197690 discloses an input system for a computer having a hand-held moveable pen, a stationary part electrically connectable to a computer, and a flexible part connecting the pen to the stationary part. The stationary part has a working surface over which the pen is manually moveable, and a light source is operable to emit light from the tip of the pen. In one embodiment, the input system has a first layer of fluorescent strips below the working surface extending parallel to each other in one direction and a second layer of fluorescent strips below the first layer and extending parallel to each other in a direction perpendicular to the one direction. Movement of the pen over the working surface causes light emitted from the tip of the pen to stimulate

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light fluorescence from the first and second layers in a manner indicative of X and Y axis positions of the pen on the working surface. At least one light sensor is provided to detect varied light, and the stationary part has a converting circuit operable to convert the sensed light to electrical signals indicative of at least an X or Y position of the pen and transmit the signals to a computer.

US 2004/0227734 discloses a pixel array comprising a plurality of pixels structures, wherein each pixel structure comprises a sub-pixel and a shadow pixel. The shadow pixel is positioned on one side of the sub-pixel and is capable of producing electromagnetic radiation in the invisible position of the spectrum. Through proper setting of the shadow pixels, the pixel array can be divided into areas having different digital codes and a sensor can be used to pick up the electromagnetic radiation from the shadow pixels to find the location emitting the digital codes. Thus, the pixel array can be used in a non-touch panel input device.

JP 1-021520 discloses a coordinate input device comprising a two-dimensional array of fluorescent fibers fixed in a transparent base, wherein one end of the fibers are connected to respective light receiving arrays and the other end of the fibers are covered with reflecting films. When a light emitting part of a light pen is abutted upon a specified display part on the plate, light beams from the light emitting part are made incident upon the fibers and transmitted through respective fibers. The beams projected from one end of the fibers are detected by the arrays.

Allowable Subject Matter

The following is an examiner's statement of reasons for allowance:

In a method of producing a touch panel comprising the steps of providing a display panel which comprises a pixel region and a controlling circuit region, and forming a plurality of pixels arranged in an array in the pixel forming region for displaying images, the prior art does not teach or suggest the method further comprising the steps of forming a plurality of fluorescent patterns not overlapping the pixels in the pixel region for designing coordinates of the pixel region, and providing an input device for inputting data, the input device comprising a light emitting element for revealing the fluorescent patterns and a light sensor for detecting the fluorescent patterns.


Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John A. McPherson whose telephone number is (571) 272-1386. The examiner can normally be reached on Monday through Friday, 8:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Huff can be reached on (571) 272-1385. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



John A. McPherson
Primary Examiner
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JAM
2/20/07